

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
August 2003

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of August 2003.

Statewide precipitation was 110 percent of average for the 2002-2003 water year as of August 31. Statewide runoff was 100 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the Internet at: "http://cdec.water.ca.gov/snow_rain.html".

On August 31, total storage in major SWP reservoirs was about 3.66 MAF, compared with about 2.67 MAF at this time in 2002. The average storage in the major SWP reservoirs at the end of August was about 3.42 MAF. The August 31 storage at Lake Oroville was about 2.46 MAF as compared to 1.54 MAF last year. The State's share of San Luis Reservoir storage was about 530 TAF, as compared with 515 TAF at this time last year. On August 31, the combined storage in our southern reservoirs was about 668 TAF, compared with about 615 TAF at this time last year.

Through August, SWP water deliveries for 2003 were about 2.35 MAF. This is a combination of project, transfer, and exchange waters. This is 91 TAF more than that delivered during the same period in 2002.

There were no constraints on the diversions other than physical capacity. For most of the month SWP targeted 7,180 cfs at CCFB and operated in compliance with outflow standards.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Jul 31	4999.96	20,709								
1	4999.90	20,656	-53	20	0	0	0	26	46	
2	4999.87	20,630	-26	20	0	0	0	26	46	
3	4999.82	20,585	-45	20	0	0	0	25	45	
4	4999.77	20,541	-44	20	0	0	0	25	45	
5	4999.71	20,488	-53	20	0	0	0	28	48	
6	4999.64	20,427	-61	20	0	0	0	26	46	
7	4999.57	20,365	-62	20	0	0	0	26	46	
8	4999.52	20,321	-44	20	0	0	0	26	46	
9	4999.44	20,251	-70	20	0	0	0	28	48	
10	4999.38	20,199	-52	20	0	0	0	25	45	
11	4999.32	20,146	-53	20	0	0	0	24	44	
12	4999.24	20,077	-69	20	0	0	0	28	48	
13	4999.18	20,024	-53	20	0	0	0	24	44	
14	4999.11	19,964	-60	20	0	0	0	24	44	
15	4999.06	19,920	-44	20	0	0	0	27	47	
16	4998.99	19,860	-60	20	0	0	0	26	46	
17	4998.92	19,799	-61	20	0	0	0	27	47	
18	4998.87	19,756	-43	20	0	0	0	24	44	
19	4998.81	19,704	-52	20	0	0	0	27	47	
20	4998.76	19,661	-43	20	0	0	0	27	47	
21	4998.69	19,601	-60	20	0	0	0	27	47	
22	4998.72	19,627	26	20	0	0	0	27	47	
23	4998.68	19,593	-34	20	0	0	0	27	47	
24	4998.62	19,541	-52	20	0	0	0	27	47	
25	4998.57	19,498	-43	20	0	0	0	27	47	
26	4998.52	19,455	-43	20	0	0	0	27	47	
27	4998.45	19,396	-59	20	0	0	0	27	47	
28	4998.39	19,345	-51	20	0	0	0	27	47	
29	4998.34	19,302	-43	20	0	0	0	28	48	
30	4998.28	19,251	-51	20	0	0	0	27	47	
31	4998.22	19,200	-51	20	0	0	0	27	47	
Total cfs-days				---	620	0	0	817	1,437	
Total ac-ft				-1,509	1,230	0	0	1,621	2,851	
									1,342	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Jul 31	5567.97	29,176								
1	5567.91	29,113	-63	0	23	0	0	9	32	
2	5567.89	29,092	-21	0	16	0	0	10	26	
3	5567.84	29,040	-52	0	16	0	0	10	26	
4	5567.80	28,998	-42	0	14	0	0	7	21	
5	5567.75	28,945	-53	0	12	0	0	15	27	
6	5567.70	28,893	-52	0	12	0	0	14	26	
7	5567.65	28,841	-52	0	13	0	0	13	26	
8	5567.60	28,789	-52	0	14	0	0	12	26	
9	5567.55	28,736	-53	0	14	0	0	13	27	
10	5567.50	28,684	-52	0	14	0	0	12	26	
11	5567.44	28,622	-62	0	14	0	0	17	31	
12	5567.36	28,539	-83	0	29	0	0	13	42	
13	5567.29	28,466	-73	0	37	0	0	1	38	
14	5567.23	28,404	-62	0	36	0	0	1	37	
15	5567.15	28,321	-83	0	24	0	0	18	42	
16	5567.09	28,259	-62	0	18	0	0	13	31	
17	5567.03	28,197	-62	0	18	0	0	17	35	
18	5566.96	28,125	-72	0	11	0	0	25	36	
19	5566.90	28,063	-62	0	7	0	0	24	31	
20	5566.83	27,991	-72	0	18	0	0	18	36	
21	5566.77	27,929	-62	0	22	0	0	16	38	
22	5566.70	27,858	-71	0	21	0	0	15	36	
23	5566.64	27,796	-62	0	21	0	0	10	31	
24	5566.57	27,725	-71	0	21	0	0	15	36	
25	5566.50	27,653	-72	0	12	0	0	24	36	
26	5566.43	27,582	-71	0	7	0	0	29	36	
27	5566.37	27,521	-61	0	7	0	0	24	31	
28	5566.30	27,449	-72	0	7	0	0	29	36	
29	5566.23	27,378	-71	0	7	0	0	29	36	
30	5566.17	27,318	-60	0	7	0	0	23	30	
31	5566.10	27,247	-71	0	7	0	0	29	36	
Total cfs-days				---	0	499	0	0	505	
Total ac-ft				-1,929	0	990	0	0	1,001	
									1,991	
									62	

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Jul 31	5766.31	53,280									
1	5766.29	53,217	-63	5	0	6	0	30	41	9	
2	5766.27	53,155	-62	4	0	5	0	30	39	8	
3	5766.24	53,062	-93	10	0	0	0	37	47	0	
4	5766.22	52,999	-63	10	0	0	0	30	40	8	
5	5766.20	52,937	-62	10	0	0	0	30	40	9	
6	5766.18	52,875	-62	10	0	0	0	29	39	8	
7	5766.16	52,813	-62	10	0	0	0	29	39	8	
8	5766.13	52,720	-93	10	0	0	0	39	49	2	
9	5766.11	52,658	-62	10	0	0	0	29	39	8	
10	5766.09	52,596	-62	10	0	0	0	29	39	8	
11	5766.07	52,534	-62	10	0	0	0	29	39	8	
12	5766.05	52,472	-62	6	0	5	0	29	40	9	
13	5766.03	52,411	-61	6	0	4	0	30	40	9	
14	5766.00	52,318	-93	6	0	4	0	38	48	1	
15	5765.98	52,256	-62	6	0	4	0	30	40	9	
16	5765.96	52,195	-61	6	0	4	0	29	39	8	
17	5765.94	52,133	-62	6	0	4	0	29	39	8	
18	5765.91	52,041	-92	6	0	4	0	39	49	3	
19	5765.89	51,979	-62	6	0	4	0	28	38	7	
20	5765.87	51,918	-61	6	0	4	0	28	38	7	
21	5765.85	51,857	-61	6	0	4	0	29	39	8	
22	5765.82	51,764	-93	6	0	4	0	39	49	2	
23	5765.80	51,703	-61	6	0	4	0	29	39	8	
24	5765.78	51,642	-61	5	0	5	0	27	37	6	
25	5765.76	51,581	-61	5	0	5	0	28	38	7	
26	5765.73	51,489	-92	5	0	5	0	39	49	3	
27	5765.71	51,428	-61	5	0	5	0	28	38	7	
28	5765.69	51,367	-61	5	0	5	0	29	39	8	
29	5765.67	51,306	-61	5	0	5	0	30	40	9	
30	5765.64	51,215	-91	5	0	5	0	39	49	3	
31	5765.62	51,154	-61	5	0	5	0	28	38	7	
Total cfs-days				---	211	0	100	0	966	1,277	206
Total ac-ft				-2,126	419	0	198	0	1,917	2,534	408

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Jul 31	853.12	2,850,416								
	1	851.77	2,832,159	-18,257	22,660	29	287	0	22,976	0
	2	850.52	2,815,328	-16,831	21,107	29	208	0	21,344	0
	3	849.35	2,799,639	-15,689	20,854	29	77	0	20,960	0
	4	848.00	2,781,611	-18,028	20,070	29	274	0	20,373	0
	5	846.97	2,767,912	-13,699	18,032	29	282	0	18,343	0
	6	845.59	2,749,632	-18,280	22,257	29	272	0	22,558	0
	7	844.69	2,737,755	-11,877	16,711	29	279	0	17,019	0
	8	844.01	2,728,806	-8,949	15,210	29	296	0	15,535	0
	9	843.10	2,716,862	-11,944	14,031	30	295	0	14,356	0
	10	842.62	2,710,576	-6,286	10,324	30	319	0	10,673	0
	11	841.67	2,698,166	-12,410	16,281	30	319	0	16,630	0
	12	840.90	2,688,137	-10,029	14,625	30	385	0	15,040	0
	13	839.94	2,675,667	-12,470	17,017	30	292	0	17,339	0
	14	839.11	2,664,913	-10,754	16,393	30	324	0	16,747	0
	15	838.14	2,652,383	-12,530	16,023	30	290	0	16,343	0
	16	837.78	2,647,743	-4,640	9,209	30	372	0	9,611	0
	17	837.07	2,638,609	-9,134	12,539	30	397	0	12,966	0
	18	836.19	2,627,319	-11,290	15,726	30	354	0	16,110	0
	19	835.42	2,617,467	-9,852	14,566	30	337	0	14,933	0
	20	834.44	2,604,966	-12,501	17,948	30	278	0	18,256	0
	21	833.04	2,587,180	-17,786	19,668	30	302	0	20,000	0
	22	831.59	2,568,848	-18,332	21,571	30	203	0	21,804	0
	23	830.53	2,555,504	-13,344	17,081	30	65	0	17,176	0
	24	829.60	2,543,837	-11,667	15,473	30	266	0	15,769	0
	25	828.19	2,526,218	-17,619	21,717	30	321	0	22,068	0
	26	826.92	2,510,423	-15,795	20,018	30	375	0	20,423	0
	27	826.09	2,500,138	-10,285	17,336	30	270	0	17,636	0
	28	824.92	2,485,690	-14,448	18,527	30	294	0	18,851	0
	29	823.91	2,473,264	-12,426	19,053	30	253	0	19,336	0
	30	823.44	2,467,497	-5,767	10,475	30	268	0	10,773	0
	31	822.68	2,458,192	-9,305	13,239	30	306	0	13,575	0
Total				-392,224	525,741	922	8,860	0	535,523	0
1/ Includes bypass flows										
2/ Evaporation will be zero for days when there is precipitation or heavy overcast.										
3/ Does not include pumpback.										

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

August 2003

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County 4/	Thermalito Irrigation District	Releases To River 5/	Hyatt Powerplant Pumpback	
Jul 31	23,522										
1	23,530	8	22,660	499	0	21,794	0	10	1,486	0	139
2	24,216	686	21,107	503	0	19,677	0	10	1,491	0	254
3	23,565	-651	20,854	503	0	20,712	0	10	1,486	0	200
4	23,816	251	20,070	436	0	19,036	0	10	1,486	0	277
5	23,691	-125	18,032	508	0	17,361	0	10	1,482	0	188
6	23,237	-454	22,257	538	0	22,182	0	11	1,238	0	182
7	23,380	143	16,711	474	0	15,768	0	11	1,451	0	188
8	23,480	100	15,210	502	0	14,340	1	11	1,503	0	243
9	23,289	-191	14,031	506	0	13,396	1	11	1,501	0	181
10	23,440	151	10,324	506	0	9,296	1	11	1,488	0	117
11	23,718	278	16,281	512	0	15,187	1	11	1,521	0	205
12	23,727	9	14,625	502	0	13,749	1	11	1,517	0	160
13	23,879	152	17,017	499	0	16,049	1	11	1,514	0	211
14	23,772	-107	16,393	510	0	15,645	1	11	1,510	0	157
15	23,065	-707	16,023	508	0	15,852	1	11	1,505	0	131
16	23,888	823	9,209	508	0	7,488	1	11	1,503	0	109
17	23,729	-159	12,539	462	0	11,742	1	11	1,514	0	108
18	23,304	-425	15,726	486	0	15,206	1	11	1,522	0	103
19	23,154	-150	14,566	506	0	13,897	1	11	1,521	0	208
20	23,265	111	17,948	551	0	17,008	1	11	1,529	0	161
21	23,610	345	19,668	456	0	18,645	1	11	1,401	0	279
22	23,693	83	21,571	508	0	20,946	1	11	1,257	0	219
23	23,909	216	17,081	508	0	16,407	1	11	1,265	0	311
24	23,727	-182	15,473	454	0	15,060	1	11	1,261	0	224
25	23,297	-430	21,717	466	0	21,481	1	11	1,263	0	143
26	23,143	-154	20,018	500	0	19,665	1	11	1,261	0	266
27	23,522	379	17,336	506	0	16,394	1	11	1,259	0	202
28	23,592	70	18,527	506	0	17,958	1	11	1,265	0	272
29	22,689	-903	19,053	503	0	19,442	1	11	1,259	0	254
30	22,920	231	10,475	508	0	9,816	1	11	1,255	0	331
31	24,017	1,097	13,239	506	0	11,402	1	11	1,253	0	19
Total		495	525,741	15,440	0	502,601	24	336	43,767	0	6,042

1/ Sum of Thermalito Forebay and Diversion Pool.

4/ Includes 5 AF of entitlement water to Del Oro WD. And 19 AF to Cal Water.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

5/ The sum of the flows from fish barrier dam and the fish hatchery.

3/ Includes Bypass flows at Thermalito.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Jul 31	130.42	33,562											
1	130.88	35,139	1,577	21,794	3,073	36	772	1,729	14,380	0	-227	15,866	
2	130.83	34,966	-173	19,677	3,054	34	770	1,719	14,380	0	107	15,871	
3	130.99	35,521	555	20,712	3,015	34	774	1,687	14,380	0	-267	15,866	
4	130.77	34,758	-763	19,036	3,015	32	742	1,631	14,380	0	1	15,866	
5	130.23	32,920	-1,838	17,361	2,975	32	732	1,569	13,428	0	-463	14,910	
6	131.61	37,711	4,791	22,182	2,936	32	718	1,537	12,278	0	110	13,516	
7	131.61	37,711	0	15,768	2,916	32	712	1,523	10,314	0	-271	11,765	
8	131.85	38,575	864	14,340	2,916	32	710	1,521	8,311	0	14	9,814	
9	131.97	39,011	436	13,396	2,876	32	674	1,511	7,755	0	-112	9,256	
10	130.97	35,451	-3,560	9,296	2,797	32	661	1,500	7,755	0	-111	9,243	
11	131.44	37,104	1,653	15,187	2,757	32	633	1,500	8,232	0	-380	9,753	
12	131.18	36,185	-919	13,749	2,757	32	623	1,543	9,719	0	6	11,236	
13	131.46	37,175	990	16,049	2,797	30	623	1,583	9,739	0	-287	11,253	
14	131.66	37,890	715	15,645	2,797	28	624	1,581	9,739	0	-161	11,249	
15	131.96	38,974	1,084	15,852	2,757	30	624	1,593	9,739	0	-25	11,244	
16	129.85	31,655	-7,319	7,488	2,777	30	621	1,601	9,739	0	-39	11,242	
17	128.85	28,437	-3,218	11,742	2,797	30	623	1,589	9,739	0	-182	11,253	
18	128.97	28,814	377	15,206	2,817	28	623	1,581	9,739	0	-41	11,261	
19	128.33	26,828	-1,986	13,897	2,797	28	593	1,547	10,711	0	-207	12,232	
20	128.44	27,165	337	17,008	2,817	28	583	1,531	11,703	0	-9	13,232	
21	128.66	27,844	679	18,645	2,817	28	583	1,533	12,714	0	-291	14,115	
22	129.66	31,031	3,187	20,946	2,737	28	583	1,531	12,734	0	-146	13,991	
23	129.24	29,672	-1,359	16,407	2,698	28	583	1,494	12,714	0	-249	13,979	
24	128.46	27,226	-2,446	15,060	2,638	28	583	1,440	12,714	0	-103	13,975	
25	129.84	31,621	4,395	21,481	2,618	28	583	1,375	12,218	0	-264	13,481	
26	130.97	35,451	3,830	19,665	2,598	30	561	1,301	10,731	0	-614	11,992	
27	131.46	37,175	1,724	16,394	2,598	30	553	1,216	10,215	0	-58	11,474	
28	132.42	40,664	3,489	17,958	2,579	30	553	1,184	9,679	0	-444	10,944	
29	133.73	45,658	4,994	19,442	2,618	30	553	1,160	9,679	0	-408	10,938	
30	132.50	40,961	-4,697	9,816	2,618	30	538	1,146	9,679	0	-502	10,934	
31	131.70	38,034	-2,927	11,402	2,618	30	532	1,144	9,679	0	-326	10,932	
Total				4,472	502,601	86,580	944	19,640	46,100	338,916	0	-5,949	382,683

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

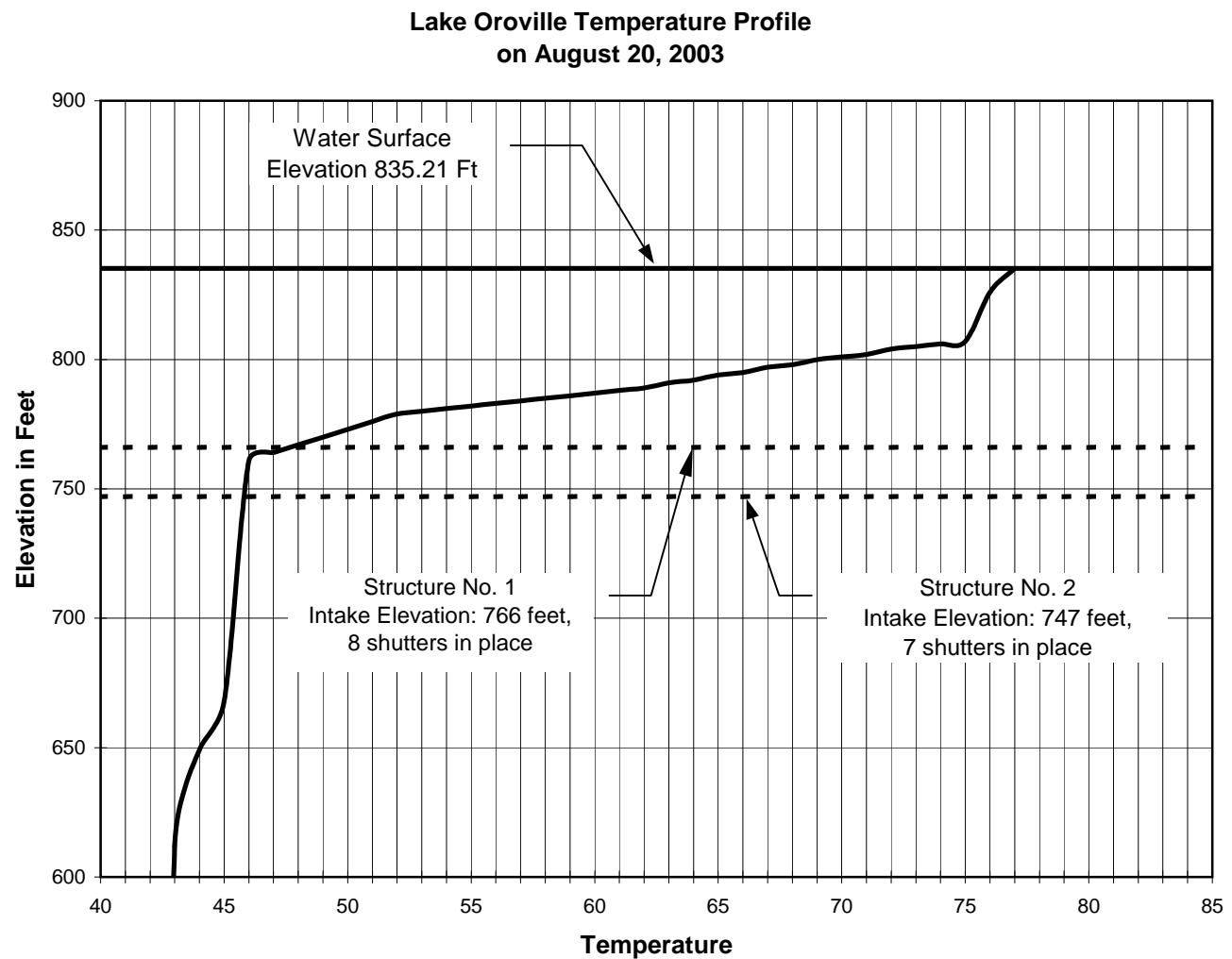
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

August 2003

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	63	56
2	61	57
3	61	58
4	62	58
5	62	58
6	62	58
7	63	59
8	63	60
9	65	61
10	65	61
11	65	58
12	65	58
13	64	59
14	64	59
15	63	60
16	63	60
17	62	58
18	62	58
19	61	58
20	61	58
21	60	59
22	59	60
23	59	60
24	61	58
25	62	58
26	62	58
27	62	58
28	62	58
29	62	59
30	62	59
31	62	59



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending					Table A Amount		Permit		
	No.	Structure	Mile			M & I	Benicia			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,352	335	416	1,599		
		Travis Surge Tank	8.78							
			8.80	Solano County Water Agency Travis Turnout	335					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	416					
				Solano County Water Agency Fairfield / Vacaville 42"	1,599					
2			17.00	Solano County Water Agency Central Solano	Stub					
3A		Cordelia Forebay	21.23			728	1,048	17		
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,457					
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	728					
3B	2	Cordelia Surge Tank	23.33			17	448	216		
		Creston Surge Tank Connection	25.65							
			26.95	Napa County Flood Control & WCD American Canyon 2	17					
			27.27	Napa County Flood Control & WCD American Canyon 3	0					
		Napa Terminal Tank	27.58	City of Napa	448					
			27.60	Napa County Flood Control & WCD American Canyon 1	216					

Table 9. Delta Field Division Plant Data

(in acre-feet)

August 2003

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	204	82	13,039	13,039	510	0	0	0
2	198	83	12,933	12,933	531	0	0	8
3	207	90	13,098	13,098	499	0	0	0
4	209	93	12,873	12,873	535	0	0	0
5	198	88	13,017	13,017	540	0	0	0
6	179	62	13,940	13,940	514	0	0	0
7	194	88	13,863	13,863	477	0	0	6
8	189	76	13,914	13,914	369	0	0	37
9	195	73	13,907	13,907	377	0	0	43
10	169	55	13,914	13,914	375	0	0	42
11	177	83	13,884	13,884	380	0	0	69
12	193	74	13,903	13,903	366	0	0	78
13	202	86	13,971	13,971	377	0	0	79
14	214	92	13,908	13,908	354	0	0	81
15	185	87	13,880	13,880	401	0	0	56
16	169	88	13,965	13,965	408	0	0	37
17	164	90	13,970	13,970	420	0	0	27
18	155	81	13,877	13,877	413	0	0	38
19	146	72	13,957	13,957	507	0	0	28
20	151	77	13,957	13,957	498	0	0	20
21	145	69	13,879	13,879	466	0	0	33
22	154	77	14,860	14,860	423	0	0	11
23	160	89	13,960	13,960	434	0	0	21
24	148	78	13,991	13,991	464	0	0	19
25	148	71	13,982	13,982	449	0	0	26
26	152	75	13,829	13,829	478	0	0	80
27	160	77	13,830	13,830	487	0	0	66
28	152	73	13,847	13,847	526	0	0	72
29	147	80	13,831	13,831	570	0	0	76
30	144	76	13,948	13,948	612	0	0	32
31	144	72	13,883	13,883	612	0	0	25
Total	5,352	2,457	427,610	427,610	14,372	0	0	1,110

Table 10. Clifton Court Forebay

Daily Operation of Gates

August 2003

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	---	7:00	9:40	14:00	17:55	20:45	22:15	---	13,214
2	---	8:00	9:30	14:15	18:50	21:30	23:00	---	13,237
3	---	9:00	10:45	14:45	17:45	22:00	23:30	---	11,928
4	---	10:00	11:30	15:15	18:57	22:45			13,166
5	0:20	5:15	8:15	11:30	14:00	23:30			13,206
6	1:00	6:15	9:30	13:00	14:30	20:30			14,010
7	1:45	8:00	11:00	14:30	16:00	23:15			14,110
8	0:01	1:15	2:55	9:00	12:00	15:45	17:15	---	14,217
9	---	2:15	3:45	10:00	14:23	17:00	18:30	---	14,005
10	---	3:00	4:40	10:45	14:45	17:45	19:15	---	14,228
11	---	4:00	5:30	11:30	16:02	18:30	20:00	---	14,196
12	---	4:45	6:15	12:15	16:30	19:00	20:30	---	14,231
13	---	5:45	7:15	12:45	17:00	19:45	21:15	---	13,948
14	---	6:30	8:00	13:15	17:00	20:15	21:45	---	14,112
15	---	7:15	8:45	13:30	17:20	20:30	22:00	---	13,871
16	---	8:00	9:30	13:45	18:20	21:15	22:45	---	13,934
17	---	8:45	10:15	14:00	17:30	21:30	23:05	---	13,792
18	---	10:00	11:30	22:00	23:30	---			14,073
19	---	4:45	8:45	11:15	12:45	22:30			14,231
20	0:01	5:45	8:45	12:45	14:15	23:00			14,215
21	0:45	7:00	10:00	14:15	15:45	22:15			14,220
22	1:30	8:00	11:15	15:30	17:00	---			14,233
23	---	1:00	2:30	9:00	12:40	16:15	17:45	---	14,191
24	---	2:25	3:30	9:45	13:55	17:00	18:30	---	14,213
25	---	2:45	4:15	10:30	14:50	17:45	19:15	---	14,240
26	---	3:45	5:15	11:00	14:46	18:40	21:00	---	13,467
27	---	4:30	6:00	11:45	15:40	18:30	20:00	---	14,088
28	---	5:30	7:00	12:00	16:05	19:00	20:30	---	14,161
29	---	6:15	7:45	12:00	15:00	19:30	21:00	---	14,110
30	---	12:00	17:20	20:00	21:30	---			14,242
31	---	8:00	9:30	13:15	16:15	20:30	22:00	---	13,553
Total inflow for the month in AF:									430,642

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Local	Loan Water	Dry Year Purchase		
	No.	Structure	Mile									
1	Banks Pumping Plant	3.32			427,610							
	South Bay Pumping Plant	4.49	Bethany Reservoir Inlet		14,372							
	Check No. 1	5.95										
	2	Check No. 2	12.01									
	3		12.47	Musco Olive	72							
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2A	8		42.46	Oak Flat Water District-A	35	35	104	338	112	291		
			42.9	Western Hills WD	104							
			43.81	Oak Flat Water District-B	338							
			44.64	Oak Flat Water District-C	112							
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	291							
				Oak Flat Totals:	776	776	0	0	0	0		
	Check No. 9	51.3										
	10	Check No. 10	56.86									
	11	Check No. 11	61.4									
2B	12		66.14	Veteran's Cemetery	16		16					
		Check No. 12	66.71		380,597							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Purchase Pool A	Purchase Pool B	Local	Recreation		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	14,372	4	16	1,199	172	15		
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	4							
		Check No. 1	3.91									
	2	Check No. 2	5.21									
2	3		7.21	Zone 7 Altamont	16	1,199	1,037	26	60	39		
		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	0							
				Zone 7 Patterson Project Water	1,199							
4	4	Check No. 4	10.68			1,199	1,037	26	60	39		
		Check No. 5	12.29									
			13.55	Zone 7 Wente #1	172							
			14.16	Zone 7 Wente #2	15							
			14.31	Ising Project Water	19							
	5	Check No. 6	14.65			1,199	1,037	26	60	39		
	7		14.78	Zone 7 Arroyo Mocho Project Water	1,037							
		Check No. 7	16.38									
	8		16.57	Zone 7 Wente #3	0							
			16.69	Zone 7 Norman Nursery	0							
			16.70	Zone 7 Concannon Project Water	26							
				Zone 7 Wente #4	60							
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	0							
				(Flow into South Bay Aqueduct)	1,110	497	100	21	39	21		
				Arroyo Valle #1 & #2 Project Water	497							
				Arroyo Valle #1 & #2 Inflow Released	39							
				Lake Del Valle Recreation	21							
				Zone 7 Wente #5	100							
6			19.20	So. Livermore Project	2,487	188	806	1,927	39	560		
				So. Livermore Inflow Released	0							
				So. Livermore Stored Exchanged	0							
7			19.21	Zone 7 - Kalthrof Detjens	188	806	1,927	39	560	21		
8	La Costa Tunnel	22.50		ACWD Vallecitos Project Water	806	6,250						
		25.97		City of San Francisco San Antonio	0							
9	Mission Tunnel	28.97		ACWD - Bayside 1 & 2 Project Water: Inflow Released Storage Release	1,927	6,250						
		35.86		S.C.V.W.D. Meter	560							

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

August 2003

(in acre-feet except as noted)

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)	
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow		
Jul 31	700.36	38,074	14									
1	700.35	38,067		-7	6	0	0	0	13	13	0.00	
2	700.32	38,047		-20	0	0	0	0	12	20	0.00	
3	700.30	38,033		-14	-3	0	0	0	11	11	0.00	
4	700.27	38,012		-21	-9	0	0	0	12	12	0.00	
5	700.24	37,992		-20	-9	0	0	0	11	11	0.00	
6	700.22	37,978		-14	-1	0	0	0	13	13	0.00	
7	700.18	37,950		-28	-9	0	0	6	0	13	19	0.00
8	700.10	37,896		-54	-6	0	0	37	0	11	48	0.00
9	700.03	37,848		-48	8	0	0	43	0	13	56	0.00
10	699.95	37,793		-55	2	0	0	42	0	15	57	0.00
11	699.82	37,704		-89	-4	0	0	69	1	15	85	0.00
12	699.70	37,622		-82	10	0	0	78	1	13	92	0.00
13	699.57	37,534		-88	5	0	0	79	1	13	93	0.00
14	699.44	37,445		-89	8	0	0	81	1	15	97	0.00
15	699.33	37,371		-74	-2	0	0	56	1	15	72	0.00
16	699.27	37,330		-41	12	0	0	37	1	15	53	0.00
17	699.21	37,289		-41	6	0	0	27	1	19	47	0.00
18	699.13	37,235		-54	3	0	0	38	1	18	57	0.00
19	699.08	37,201		-34	8	0	0	28	1	13	42	0.00
20	699.04	37,174		-27	3	0	0	20	1	9	30	0.00
21	698.99	37,140		-34	14	0	0	33	1	14	48	0.02
22	698.97	37,127		-13	4	0	0	11	1	5	17	0.09
23	698.91	37,086		-41	-11	0	0	21	1	8	30	0.00
24	698.88	37,066		-20	11	0	0	19	1	11	31	0.00
25	698.80	37,012		-54	-8	0	0	26	1	19	46	0.00
26	698.68	36,931		-81	18	0	0	80	1	18	99	0.11
27	698.57	36,857		-74	7	0	0	66	1	14	81	0.00
28	698.46	36,783		-74	10	0	0	72	1	11	84	0.00
29	698.33	36,695		-88	0	0	0	76	1	11	88	0.00
30	698.27	36,655		-40	3	0	0	32	1	10	43	0.00
31	698.22	36,621		-34	2	0	0	25	1	10	36	0.00
Total				-1,453	78	0	0	1,110	21	400	1,531	0.22

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

August 2003

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Jul 31	221.16	46,180											
1	221.40	46,810	630	0	0	5,277	5,762	527	0	10,222	26	54	
2	221.70	47,598	788	0	0	5,335	5,931	66	0	11,030	27	254	
3	220.22	43,723	-3,875	0	447	2,387	5,877	0	0	10,808	28	171	
4	222.21	48,942	5,219	0	525	5,163	5,824	0	0	9,186	27	332	
5	222.51	49,740	798	0	464	3,382	5,759	0	0	9,370	27	194	
6	221.15	46,154	-3,586	0	516	1,033	6,291	0	0	9,801	26	179	
7	221.44	46,915	761	0	578	2,568	6,382	0	0	9,167	27	50	
8	220.79	45,210	-1,705	0	630	959	6,421	0	0	8,980	26	136	
9	222.22	48,969	3,759	0	806	3,826	6,303	0	0	9,198	28	186	
10	221.27	46,469	-2,500	0	1,001	0	6,607	0	0	8,997	26	155	
11	223.03	51,126	4,657	0	1,069	3,295	5,975	0	0	8,209	27	245	
12	222.50	49,713	-1,413	0	946	0	6,292	0	0	8,284	26	360	
13	219.74	42,480	-7,233	0	687	0	6,269	0	2,023	8,781	28	229	
14	218.73	39,901	-2,579	0	480	2,212	6,217	125	597	10,114	27	654	
15	220.53	44,531	4,630	0	464	5,479	6,365	379	0	9,859	28	292	
16	221.87	48,045	3,514	0	454	4,346	6,224	419	0	9,096	27	290	
17	220.13	43,489	-4,556	0	474	875	6,447	387	500	9,492	26	312	
18	222.05	48,517	5,028	0	425	4,811	6,129	230	0	9,000	27	427	
19	222.50	49,713	1,196	0	437	3,640	6,129	114	1,588	8,117	26	242	
20	221.23	46,364	-3,349	0	407	2,170	6,412	0	1,989	9,368	27	707	
21	221.40	46,810	446	0	440	3,252	6,216	0	600	9,584	28	529	
22	220.99	45,734	-1,076	0	677	1,730	6,491	0	0	10,026	26	612	
23	221.52	47,125	1,391	0	990	3,233	5,933	0	0	9,860	27	432	
24	222.30	49,182	2,057	0	1,363	1,577	6,645	0	189	8,780	26	447	
25	223.60	52,652	3,470	0	1,530	2,899	6,439	0	3,208	6,058	28	175	
26	222.10	48,650	-4,002	0	1,375	1,075	6,046	0	3,591	7,472	27	576	
27	219.77	42,557	-6,093	0	1,273	0	6,167	0	3,135	7,714	26	363	
28	220.29	43,905	1,348	0	1,190	2,608	6,188	0	1,965	7,923	27	609	
29	220.74	45,080	1,175	0	1,202	3,036	6,128	0	2,606	7,522	26	380	
30	221.50	47,073	1,993	0	1,391	2,379	6,175	0	1,774	7,629	27	490	
31	222.15	48,783	1,710	0	1,734	1,869	5,837	0	2,000	6,948	28	398	
Total				2,603	0	23,975	80,416	191,881	2,247	25,765	276,595	833	10,480
Mean cfs				---	0	773	2,594	6,190	72	831	8,922	27	338
Acre-feet				2,603	0	47,554	159,501	380,597	4,458	51,104	548,629	1,652	20,794

1/ Pump-in located at Mile 79.67R.

2/ Includes 52 AF delivered to DFG at O'Neill Forebay and 19 AF to Parks and Recreation and 1,581 AF to SLWD.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

August 2003

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Jul 31	444.51	918,347						
1	443.37	907,280	-11,067	0	5,277	335	0	32
2	442.28	896,741	-10,539	0	5,335	338	0	360
3	441.75	891,631	-5,110	0	2,387	211	0	22
4	440.63	880,866	-10,765	0	5,163	245	0	-19
5	439.87	873,587	-7,279	0	3,382	322	0	34
6	439.55	870,528	-3,059	0	1,033	329	0	-180
7	438.95	864,802	-5,726	0	2,568	348	0	29
8	438.65	861,944	-2,858	0	959	360	0	-122
9	437.78	853,674	-8,270	0	3,826	387	0	44
10	437.67	852,630	-1,044	0	0	391	0	-135
11	436.90	845,336	-7,294	0	3,295	366	0	-16
12	436.80	844,390	-946	0	0	394	0	-83
13	437.10	847,228	2,838	2,023	0	319	0	-273
14	436.67	843,161	-4,067	597	2,212	384	0	-51
15	435.47	831,846	-11,315	0	5,479	393	0	167
16	434.48	822,551	-9,295	0	4,346	392	0	52
17	434.31	820,958	-1,593	500	875	377	0	-51
18	433.22	810,772	-10,186	0	4,811	360	0	36
19	432.67	805,648	-5,124	1,588	3,640	373	0	-158
20	432.57	804,718	-930	1,989	2,170	350	0	62
21	431.90	798,494	-6,224	600	3,252	351	0	-135
22	431.46	794,415	-4,079	0	1,730	373	0	47
23	430.71	787,480	-6,935	0	3,233	357	0	94
24	430.30	783,698	-3,782	189	1,577	359	0	-160
25	430.30	783,698	0	3,208	2,899	340	0	31
26	430.74	787,757	4,059	3,591	1,075	122	0	-348
27	431.30	792,934	5,177	3,135	0	127	0	-398
28	431.17	791,731	-1,203	1,965	2,608	274	0	310
29	430.91	789,328	-2,403	2,606	3,036	292	0	-489
30	430.79	788,219	-1,109	1,774	2,379	285	0	331
31	430.71	787,480	-739	2,000	1,869	363	1	-140
Total			-130,867	25,765	80,416	10,217	1	-1,107
Mean cfs			---	831	2,594	330	0	-36
Acre-feet			-130,867	51,104	159,501	20,270	2	-2,198

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 15,191 AF, San Benito: 5,079 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

August 2003

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	20,275	14,913	10,467	3,878	0	0	665
2	21,878	16,459	10,582	3,948	0	0	671
3	21,438	16,019	4,734	4,734	0	0	419
4	18,220	12,687	10,240	3,552	0	0	485
5	18,585	13,066	6,708	1,761	0	0	638
6	19,441	13,973	2,048	2,048	0	0	653
7	18,182	12,711	5,094	1,148	0	0	691
8	17,812	12,364	1,902	1,902	0	0	715
9	18,245	12,787	7,589	3,984	0	0	768
10	17,846	12,920	0	0	0	0	776
11	16,282	11,371	6,536	226	0	0	726
12	16,431	11,471	0	0	0	0	782
13	17,418	12,521	0	0	4,012	4,012	632
14	20,062	15,285	4,388	186	1,184	1,184	762
15	19,555	15,578	10,868	6,671	0	0	780
16	18,041	13,949	8,620	4,375	0	0	777
17	18,828	14,766	1,736	1,736	992	992	748
18	17,852	13,799	9,543	5,256	0	0	714
19	16,101	10,603	7,220	685	3,150	3,150	740
20	18,581	13,064	4,304	-37	3,945	3,945	694
21	19,010	13,527	6,451	23	1,190	1,190	696
22	19,886	14,362	3,431	-33	0	0	738
23	19,558	14,040	6,412	-71	0	0	709
24	17,415	11,858	3,127	3,127	374	-52	713
25	12,016	6,538	5,750	1,323	6,364	3,514	674
26	14,820	9,175	2,132	3	7,122	7,122	242
27	15,301	8,757	0	0	6,219	6,219	252
28	15,715	9,186	5,172	15	3,898	3,898	544
29	14,920	8,413	6,022	1,891	5,169	5,169	579
30	15,133	8,560	4,718	137	3,518	3,518	566
31	13,782	7,128	3,707	85	3,967	3,967	721
Total	548,629	381,850	159,501	52,553	51,104	47,828	20,270

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

August 2003

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Jul 31	325.96	19,722					
1	325.99	19,735	13	7	0	0	-1
2	325.90	19,694	-41	0	0	0	-41
3	325.91	19,699	5	3	0	0	-1
4	325.85	19,671	-28	0	0	0	-28
5	325.86	19,676	5	3	0	0	-1
6	325.84	19,667	-9	0	0	0	-9
7	325.85	19,671	4	2	0	0	0
8	325.86	19,676	5	3	0	0	-1
9	325.87	19,680	4	2	0	0	0
10	325.88	19,685	5	3	0	0	-1
11	325.86	19,676	-9	0	0	0	-9
12	325.86	19,676	0	0	0	0	0
13	325.86	19,676	0	0	0	0	0
14	325.85	19,671	-5	0	0	0	-5
15	325.84	19,667	-4	0	0	0	-4
16	325.86	19,676	9	5	0	0	-1
17	325.89	19,689	13	7	0	0	-1
18	325.87	19,680	-9	0	0	0	-9
19	325.80	19,648	-32	0	0	0	-32
20	325.81	19,653	5	3	0	0	-1
21	325.70	19,602	-51	0	0	0	-51
22	325.67	19,589	-13	0	0	0	-13
23	325.71	19,607	18	9	0	0	0
24	325.77	19,634	27	14	0	0	-1
25	325.84	19,667	33	17	0	0	-1
26	325.88	19,685	18	9	0	0	0
27	325.79	19,644	-41	0	0	0	-41
28	325.68	19,593	-51	0	0	0	-51
29	325.66	19,584	-9	0	0	0	-9
30	325.68	19,593	9	5	0	0	-2
31	325.70	19,602	9	5	0	0	-2
Total			-120	98	0	0	---
Mean cfs			---	3	0	0	---
Acre-feet			-120	194	0	0	314

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

August 2003

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Jul 31	600.58	714					
1	600.55	712	-2	0	0	0	-2
2	600.55	712	0	0	0	0	0
3	600.55	712	0	0	0	0	0
4	600.50	710	-2	0	0	0	-2
5	600.50	710	0	0	0	0	0
6	600.40	704	-6	0	0	0	-6
7	600.40	704	0	0	0	0	0
8	600.40	704	0	0	0	0	0
9	600.40	704	0	0	0	0	0
10	600.40	704	0	0	0	0	0
11	600.35	702	-2	0	0	0	-2
12	600.35	702	0	0	0	0	0
13	600.35	702	0	0	0	0	0
14	600.35	702	0	0	0	0	0
15	600.35	702	0	0	0	0	0
16	600.35	702	0	0	0	0	0
17	600.35	702	0	0	0	0	0
18	600.20	694	-8	0	0	0	-8
19	Not Observed			0	0	0	
20	600.20	694	0	0	0	0	0
21	600.20	694	0	0	0	0	0
22	600.15	691	-3	0	0	0	-3
23	600.15	691	0	0	0	0	0
24	600.15	691	0	0	0	0	0
25	600.10	689	-2	0	0	0	-2
26	Not Observed			0	0	0	
27	600.10	689	0	0	0	0	0
28	600.05	686	-3	0	0	0	-3
29	Not Observed			0	0	0	
30	600.05	686	0	0	0	0	0
31	600.00	684	-2	0	0	0	-2
Total			-30	0	0	0	-30
Mean cfs			---	0	0	0	---
Acre-feet			-30	0	0	0	-30

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer 1/	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		380,597						
3A		San Luis Reservoir		Department of Parks and Recreation	2	15,191		1	1		
				San Felipe Division Santa Clara Water District	15,191						
				San Felipe Division San Benito Water District	5,079						
				Department of Parks and Recreation	19						
3	13	O'Neill Forebay	70.85	Cattle Program	0	1,581		10	9		
				Department of Fish & Game	52						
				70.91	San Luis Water District						
			Thru 85.08	(Floodwater Inflow)	0	1,581		0	0		
				Reach 3 Subtotal:	1,652						
			Check No. 13			1,581	0	39	32		
			86.73		548,629						
	14		89.03			7,918					
			Thru 94.06	San Luis Water District	7,918						
			89.66				1,926				
			Thru 89.67	Pacheco Water District	1,926						
			89.68			43					
			89.70	Panoche Water District	43						
4	15		95.06			163					
			98.15				998				
			Thru 104.20	San Luis Water District	998						
			96.15			7,974					
			Thru 102.64	Panoche Water District	7,974						
				(Floodwater Inflow)	0		3				
			102.64	Broadview Water District	3						
			105.22			17,696					
			Thru 108.64	Westlands Water District	17,696						
			Check No.15	108.50							
				San Felipe Division Total:	20,270	20,270	0	0	0		
				Pacheco Water District Total:	1,926	1,926	0	0	0		
				Broadview Water District Total:	3	3	0	0	0		
				City of Dos Palos Total:	163	163	0	0	0		
				SLWD Reach 4 Subtotal:	10,497	10,497	0	0	0		
				Panoche Water District Total:	8,017	8,017	0	0	0		
				SLWD Total:	10,497	10,497	0	0	0		
				Westlands WD Reach 4 Subtotal:	17,696	17,696	0	0	0		

1/ Water transferred from Contra Costa WD.

Table 19b. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure	Mile										
5	16		110.52	(Reverse flow, Kings River)	0	21,788	2	1					
			Thru	Westlands Water District	21,788								
			122.05	Department of Fish and Game	3								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	16,565	16,565							
			Thru										
		Check No. 17	132.74										
	18		133.81	Westlands Water District	18,301	18,301							
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	10,776	10,776							
			143.16	City of Coalinga	888		888						
		Check No. 18	143.23										
				Westlands WD Reach 5 Subtotal:	67,430	67,430	0	0	0				
6	19		145.26	Westlands Water District	26,701	26,701							
			Thru										
		Check No. 19	151.19										
				Westlands WD Reach 6 Subtotal:	26,701	26,701	0	0	0				
7	20		156.34	City of Huron	120	120							
			156.40	Westlands Water District	15,265								
			Thru										
		Check No. 20	163.69										
			164.69										
	21		164.79	City of Avenal	289	289							
			167.04	Westlands Water District	5,097								
			Thru										
		Check No. 21	171.67										
			172.40		408,908								
				Reach 7 Total:	20,771	20,771	0	0	0				
				Westlands WD Total:	132,189	132,189	0	0	0				
				City of Coalinga Total:	888	888	0	0	0				
				City of Huron Total:	120	120	0	0	0				
				City of Avenal Total:	289	289	0	0	0				
Total San Luis Field Division Deliveries:					174,438	174,362	0	42	34				

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

August 2003

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/	Pool 15	Pools 15 thru 21 4/	Flow Past Check 21	
Jul 31	30,304								
1	29,231	-1,073	0	10,222	245	167	2,323	8,117	89
2	30,483	1,252	0	11,030	245	167	2,323	7,703	39
3	30,170	-313	0	10,808	245	167	2,323	8,652	421
4	30,674	504	0	9,186	245	167	2,323	6,355	158
5	29,685	-989	0	9,370	245	167	2,323	7,332	198
6	29,879	194	0	9,801	252	172	2,323	7,174	218
7	29,627	-252	0	9,167	211	134	2,297	6,850	198
8	30,331	704	0	8,980	211	134	2,297	6,211	228
9	29,143	-1,188	0	9,198	211	134	2,297	7,437	282
10	30,140	997	0	8,997	211	134	2,297	6,384	532
11	29,623	-517	0	8,209	211	134	2,297	6,211	383
12	29,283	-340	0	8,284	211	134	2,297	5,952	139
13	29,213	-70	0	8,781	220	138	2,297	6,133	-28
14	29,708	495	0	10,114	186	160	2,227	7,166	-125
15	30,663	955	0	9,859	186	160	2,227	6,670	-135
16	30,448	-215	0	9,096	186	160	2,227	6,713	82
17	30,690	242	0	9,492	186	160	2,227	7,223	426
18	30,466	-224	0	9,000	186	160	2,227	6,928	388
19	29,407	-1,059	0	8,117	186	160	2,227	6,340	262
20	29,441	34	0	9,368	186	168	2,227	6,810	40
21	29,502	61	0	9,584	127	117	2,047	7,056	-206
22	29,537	35	0	10,026	127	117	2,047	7,457	-260
23	29,779	242	0	9,860	127	117	2,047	7,175	-272
24	30,579	800	0	8,780	127	117	2,047	6,455	369
25	29,272	-1,307	0	6,058	127	117	2,047	4,957	531
26	28,861	-411	0	7,472	127	117	2,047	5,845	457
27	28,460	-401	0	7,714	138	121	2,047	6,060	450
28	29,069	609	0	7,923	95	35	1,841	5,560	-85
29	29,119	50	0	7,522	95	35	1,841	5,787	261
30	29,969	850	0	7,629	95	35	1,841	5,614	385
31	29,634	-335	0	6,948	98	37	1,843	5,830	692
Total		-670	0	276,595	5,548	4,042	67,301	206,157	6,116
Mean cfs		---	0	8,922	179	130	2,171	6,650	197
Acre-feet		-670	0	548,629	11,005	8,017	133,492	408,908	12,123

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water and Flood Water is included in the gain or loss.

3/ Includes 1,925 AF AG & 1 AF M&I to Pacheco W.D. and 163 AF to the City of Dos Palos, and 8,916 AF to SLWD.

4/ Includes 120 AF to the City of Huron, 289 AF to the City of Avenal, 888 AF to the City of Coalinga, 3 AF to F&G @ WWD Lateral 4L, and 3 AF to Broadview W.D., and 132,189 AF to Westlands WD.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

August 2003

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	493	493	102	97	105	6,724	6,370	5,815	6,017
2	631	631	102	94	100	7,869	7,154	6,798	6,690
3	604	604	122	112	125	8,510	8,334	8,093	8,085
4	454	454	76	70	77	6,654	6,342	6,078	6,046
5	529	529	141	135	136	6,764	6,356	6,078	6,043
6	499	499	123	119	128	6,713	6,482	6,165	6,099
7	499	499	130	124	125	7,105	6,755	6,350	6,102
8	508	508	114	110	113	7,417	7,087	6,867	6,690
9	582	582	100	93	101	7,987	7,758	7,461	7,381
10	553	553	149	138	147	7,245	7,058	6,805	6,629
11	414	414	90	84	91	6,656	6,349	6,031	5,965
12	305	305	114	104	110	6,677	6,587	6,262	6,253
13	355	355	120	114	119	7,173	7,041	6,693	6,544
14	397	397	120	114	119	7,655	6,908	6,370	6,489
15	383	383	117	109	116	7,526	7,083	6,815	6,569
16	502	502	110	104	109	7,770	7,537	7,522	7,180
17	486	486	141	131	141	8,206	7,994	7,757	7,676
18	355	355	94	88	94	7,691	7,498	7,192	7,166
19	353	353	100	93	99	7,017	6,829	6,343	6,495
20	377	377	114	108	112	7,841	7,411	7,036	6,657
21	334	334	114	109	113	7,032	7,003	6,575	6,609
22	338	338	120	111	117	7,844	7,471	7,090	6,898
23	565	565	114	107	113	8,508	8,230	7,831	7,809
24	547	547	138	129	138	7,821	7,710	7,434	7,305
25	408	408	85	80	86	6,392	6,501	6,147	6,039
26	460	460	109	100	109	6,929	6,809	6,475	6,417
27	444	444	95	88	94	7,148	6,876	6,443	6,293
28	429	429	115	110	115	6,446	6,307	5,892	5,766
29	438	438	117	109	113	6,072	6,081	5,749	5,511
30	505	505	108	103	108	6,703	6,592	6,213	6,093
31	404	404	111	105	113	8,013	8,078	7,784	7,709
Total	14,151	14,151	3,505	3,292	3,486	226,108	218,591	208,164	205,225

Table 22a. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Purchase Pool A	Purchase Pool B	MWD 1/		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		408,908							
8C	22			Empire West Side Irrig. Dist. TL - A	0	500 4,483 472 260 1,157 3,920 16,133 4 2,454		30 15	4 3			
				172.66	County of Kings TL - A							
					TLBWSD TL-A							
				175.18	DRWD - 1							
				177.54	DRWD - 1B							
				180.64	TLBWSD - C							
				180.65	DRWD - 1A							
				182.99	DRWD - 2							
				183.00	Tulare Lake Basin WSD TL - B							
				184.00	DRWD - Paramount							
31A				184.63	Coastal Branch							
8D				184.78	Dudley Ridge Water Dist. DRWD - 3							
					Dudley Ridge Reach 8D Total:	8,267						
9	23				Tulare Lake Basin WSD Total:	20,634						
				Check No. 22	184.82							
				189.69	Kern County Water Agency Lost Hills Water Dist. - 1	7,188	7,188 1,451 483 2,007		0 15			
				191.18	Kern County Water Agency Lost Hills Water Dist. - 2	1,451						
				194.22	Kern County Water Agency Lost Hills Water Dist. - 3	483						
				196.40	Kern County Water Agency Berrenda Mesa - 2	0						
				196.75	Kern County Water Agency Lost Hills Water Dist. - 4	2,007						
					K.C.W.A. Reach 9 Subtotal:	11,129						
				Check No. 23	197.05							
10A	24			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	592	592 464 10 1,962		0 1,008 1,008 8,175			
				202.05	Kern County Water Agency Lost Hills Water Dist. - 5	464						
				204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0						
				205.26	Kern County Water Agency Lost Hills Water Dist. - 8	10						
				Check No. 24	207.94							
				209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	1,962						
				209.78	Kern National Wildlife Refuge USBR BV-1B	1,008						
					Kern County Water Agency Buena Vista WSD 1B	0						
				209.80	KCWA Semitropic WSD	33,434						
					KCWA Semitropic WSD Penstocks	14,741						
					USBR Total:	1,008						
					K.C.W.A. Reach 10A Subtotal:	51,203	0	0	0	40,000		

1/ MWD's Table A to Semi-Tropic for storage.

Table 22b. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recovery of Pump In	Purchase Pool A	Purchase Pool B	MWD 2/		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0	303						
			214.11	Kern County Water Agency Belridge - 3	303							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5	12,650	12,650						
				Kern County Water Agency Belridge - 5D	158							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	13,111	13,111	0	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	264						
				Kern County Water Agency West Kern - 3	264							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	3,860	3,860	133					
		Check No. 27	231.73									
	28		235.75	Kern County Water Agency Buena Vista - 2	11,408							
				Kern County WA CVC	21,699							
				DRWD CVC	0							
				Tulare Co.	0							
			238.04	Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda DWR Wells	0							
	Check No. 28	238.11										
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	36,967	21,026	0	0	0	15,941		
13B	29		238.19	Kern Water Bank Inflow	0	1,865	3,716					
				Kern Water Bank Outflow	3,716							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	11,050							
				KCWA Buena Vista WSD - 5	294							
			243.09	Kern County Water Agency Buena Vista - 3	4,258							
		Check No. 29	244.54	Buena Vista WSD	0							
	30		249.85	Kern County Water Agency Buena Vista - 4	863		9,185	294				
			250.99	Buena Vista Pumping Plant	226,108							
				K.C.W.A. Reach 13B Subtotal:	20,181	18,316	0	0	0	1,865		
14A	31		254.47	Kern County Water Agency West Kern - 2	0	2						
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	2							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ MWD's Table A to Kern Delta WD for storage.

Table 22c. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recovery of Pump In	MWD Ent. Exchange	Ex-change	MWD 1/		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14			441						
	32		258.61		Kern County Water Agency Wheeler Ridge-Maricopa - 3	441						
			260.44		Kern County Water Agency Wheeler Ridge-Maricopa - 4	1,672						
		Check No. 32	261.72		KCWA Reach 14A Subtotal:	2,115						
						2,115	0	0	0	0		
14B	33		264.42		Kern County Water Agency Wheeler Ridge-Maricopa - 5	4,044	4,044					
			266.91		Kern County Water Agency Wheeler Ridge-Maricopa - 6	818						
		Check No. 33	267.36		Kern County Water Agency Wheeler Ridge-Maricopa - 7	2,827						
	34		270.24		Kern County Water Agency Arvin Edison WSD	3,395	2,827					
		Check No. 34	271.27		Reach 14B Total:	7,689						
						7,689	0	0	0	0		
14C	35		272.39		Kern County Water Agency Wheeler Ridge-Maricopa - 8	1,782	1,782					
			276.09		Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,155						
					Kern County Water Agency Arvin Edison WSD	3,395						
					Reach 14C Total:	6,332						
						4,432	0	0	0	1,900		
15A	36	Teerink Pumping Plant	278.13			218,591	550					
		279.02		Kern County Water Agency Wheeler Ridge-Maricopa - 9A	550							
		280.06		Kern County Water Agency Wheeler Ridge-Maricopa - 10	3,973							
				Reach 15-A Total:	4,523							
16A	37	Chrisman Pumping Plant	280.36			208,164	10					
		282.06		Kern County Water Agency Wheeler Ridge-Maricopa - 11	0							
		Check No. 37	283.95		Kern County Water Agency Wheeler Ridge-Maricopa - 12					10		
		285.01		Kern County Water Agency Wheeler Ridge-Maricopa - 13A	69							
		286.39		Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
	38		287.06		Kern County Water Agency Tehachapi Cummings CWD	1,217	69					
			287.09		K.C.W.A. Reach 16A Subtotal:	2,718						
			287.62			2,718						
	39		290.21		Kern County Water Agency Wheeler Ridge-Maricopa - 13B	56	56					
			291.26		Kern County Water Agency Wheeler Ridge-Maricopa - 14	932						
			293.07		Kern County Water Agency Wheeler Ridge-Maricopa - 15	434						
					Kern County Water Agency Tehachapi Cummings CWD	1,217						
					K.C.W.A. Reach 16A Subtotal:	2,718						
17E		Edmonston Pumping Plant	293.45			205,225						

1/ MWD's Table A to Arvin Edison WSD.

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recovery of Pump In	MWD Ent. 1/	Exchange	Purchase Pool B		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		14,151	1,301 9,232						
		Las Perillas Pumping Plant	1.16		14,151							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		14,151							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	1,301							
			14.83	Kern County Water Agency Berrenda Mesa - 1	9,232							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		3,505							
				K.C.W.A. Reach 31A Subtotal:	10,533	10,533	0	0	0	0		
				K.C.W.A. Total:	166,765	107,059	0	59,706	0	0		
33A	C-7	Bluestone Pumping Plant	19.05		3,292	2,942 493						
	C-8	Polonio Pass Pumping Plant	26.54		3,486							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,942							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	493	3,435						
		Energy Dissipater	78.12									
35	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0							
				CCWA Total:	3,435		0	0	0	0		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
38		So. Cal. Water T.O.	109.20	SBCFC & WCD	0	0						
				SBCFC & WCD Total:	0		0	0	0	0		
		Tank Site 5	115.42									

1/ MWD's Table A for storage. 40,000 AF to Semi-Tropic, 17,841 AF to Kern-Delta, and 1,900 AF to Arvin Edison.

Table 24. Southern Field Division Plant Data

(in acre-feet)

August 2003

Date	West Branch					East Branch											
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Cherry Valley	Green Spot	Crafton Hills	
		Generation	Leakage	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume					
28	1	2,684	3,289	0	1,737	0	3,121	0	181	3,128	2,942	0	0	2,978	0	11	5
	2	3,500	3,288	0	933	0	3,100	0	79	2,912	2,984	0	0	3,023	0	11	5
	3	3,962	3,293	0	763	3,696	3,610	0	450	3,224	2,847	0	0	2,938	0	11	5
	4	2,773	3,059	0	6,583	1,316	3,176	0	124	2,948	2,999	0	0	3,141	0	11	5
	5	2,728	3,173	0	6,066	758	3,199	0	107	2,913	2,814	0	0	3,090	0	11	5
	6	3,097	3,295	0	7,470	2,665	2,829	0	106	2,844	2,610	0	0	2,944	0	11	5
	7	2,638	3,287	0	7,567	2,707	3,147	0	399	3,176	2,916	0	0	3,039	0	11	5
	8	3,191	3,280	0	6,265	2,026	3,276	0	185	2,995	2,960	0	0	3,146	0	11	5
	9	4,504	3,161	0	3,499	752	2,889	0	70	2,699	2,537	0	0	3,085	0	11	5
	10	2,892	3,279	0	3,899	291	3,641	0	61	3,398	3,102	0	0	3,021	0	11	5
	11	3,000	3,119	0	4,470	5,463	2,829	0	149	2,981	2,937	0	0	3,075	0	11	5
	12	2,908	3,080	0	5,849	2,150	2,950	0	322	2,721	2,812	0	0	3,188	0	11	5
	13	3,032	3,279	0	5,665	1,613	3,272	0	199	2,885	2,631	0	0	3,219	0	11	5
	14	3,002	3,275	0	5,475	2,765	3,149	0	295	3,132	2,632	0	0	3,102	0	11	5
	15	3,155	3,271	0	5,206	3,174	3,049	0	303	3,094	3,082	0	0	3,122	0	11	5
	16	3,842	3,118	0	3,973	1,040	3,011	0	309	2,960	3,013	0	0	3,089	0	11	5
	17	3,776	3,281	0	3,390	3,441	3,545	0	318	3,478	3,185	0	0	3,106	0	11	5
	18	3,506	3,178	0	5,086	2,229	3,505	0	116	3,355	3,039	0	0	3,160	1	11	6
	19	3,016	3,172	0	5,213	706	3,144	0	264	3,192	3,126	0	0	3,250	1	11	6
	20	3,344	3,232	0	6,498	2,719	3,027	0	487	2,901	2,806	0	0	3,147	1	11	6
	21	3,100	3,284	0	5,866	1,462	3,195	0	292	3,124	3,070	0	0	3,063	1	12	6
	22	3,473	3,282	0	6,840	1,324	3,314	0	97	3,134	3,275	0	0	3,171	1	12	6
	23	4,143	3,274	0	1,833	1,203	3,462	0	161	3,686	3,170	0	0	3,036	1	12	6
	24	3,585	3,257	0	2,586	3,687	3,469	0	266	3,083	3,417	0	0	2,980	1	12	6
	25	3,052	3,290	0	5,175	1,759	2,757	0	214	2,628	2,521	0	0	3,394	1	12	6
	26	2,918	2,944	0	5,213	955	3,310	0	173	3,413	3,224	0	0	3,096	1	12	6
	27	2,932	3,292	0	6,176	1,476	2,946	0	324	2,904	2,910	0	0	3,106	1	12	6
	28	2,838	3,291	0	5,524	601	2,659	0	279	2,853	2,544	0	0	3,088	1	12	6
	29	2,759	3,283	0	5,761	387	2,949	0	0	2,643	2,815	0	0	3,099	1	12	6
	30	2,788	3,212	0	1,788	2,243	3,087	0	209	2,968	2,798	0	0	3,134	1	12	6
	31	3,866	3,283	0	4,498	2,550	3,471	0	314	3,386	3,153	0	0	3,197	1	12	6
	Total	100,004	100,101	0	146,867	57,158	98,088	0	6,853	94,758	90,871	0	0	96,227	14	352	169

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			United Water Agency	Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural		
				Castaic Powerplant Pumpback 1/	Warne Powerplant	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	To Piru Creek		
Jul 31	2568.75	158,233									
1	2570.14	159,952	1,719	0	3,289	6	1,737	0	0	105	266
2	2571.91	162,158	2,206	0	3,288	15	933	0	0	105	-59
3	2576.66	168,177	6,019	3,696	3,293	15	763	0	0	105	-117
4	2575.07	166,146	-2,031	1,316	3,059	11	6,583	0	0	105	271
5	2573.20	163,778	-2,368	758	3,173	9	6,066	0	0	105	-137
6	2571.79	162,008	-1,770	2,665	3,295	9	7,470	0	0	105	-164
7	2570.30	160,150	-1,858	2,707	3,287	8	7,567	0	0	104	-189
8	2569.40	159,035	-1,115	2,026	3,280	8	6,265	1	0	103	-60
9	2569.52	159,184	149	752	3,161	8	3,499	0	0	102	-171
10	2569.07	158,628	-556	291	3,279	8	3,899	0	0	96	-139
11	2572.19	162,509	3,881	5,463	3,119	8	4,470	0	0	95	-144
12	2571.54	161,695	-814	2,150	3,080	8	5,849	0	0	93	-110
13	2570.78	160,747	-948	1,613	3,279	8	5,665	0	0	91	-92
14	2571.10	161,146	399	2,765	3,275	7	5,475	0	0	89	-84
15	2571.97	162,233	1,087	3,174	3,271	7	5,206	0	0	87	-72
16	2571.99	162,258	25	1,040	3,118	7	3,973	0	0	85	-82
17	2574.44	165,346	3,088	3,441	3,281	6	3,390	0	0	83	-167
18	2574.60	165,549	203	2,229	3,178	6	5,086	0	0	81	-43
19	2573.40	164,030	-1,519	706	3,172	6	5,213	0	0	79	-111
20	2572.84	163,325	-705	2,719	3,232	7	6,498	0	0	77	-88
21	2571.78	161,995	-1,330	1,462	3,284	8	5,866	1	0	75	-142
22	2569.89	159,642	-2,353	1,324	3,282	9	6,840	0	0	73	-55
23	2571.88	162,120	2,478	1,203	3,274	9	1,833	0	0	71	-104
24	2575.40	166,566	4,446	3,687	3,257	9	2,586	0	0	69	148
25	2575.13	166,222	-344	1,759	3,290	9	5,175	0	0	67	-160
26	2574.00	164,788	-1,434	955	2,944	9	5,213	0	0	65	-64
27	2572.79	163,262	-1,526	1,476	3,292	10	6,176	0	0	63	-65
28	2571.35	161,458	-1,804	601	3,291	8	5,524	0	0	61	-119
29	2569.57	159,245	-2,213	387	3,283	7	5,761	0	0	59	-70
30	2572.50	162,898	3,653	2,243	3,212	7	1,788	0	0	57	36
31	2573.46	164,106	1,208	2,550	3,283	8	4,498	0	0	55	-80
Total				5,873	57,158	100,101	260	146,867	2	0	2,610
1/ Values supplied by LADWP, not verified by DWR.											

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project		
Jul 31	1528.23	26,868								
1	1522.87	24,478	-2,390	1,737	0	0	0	3,930	-197	
2	1517.57	22,217	-2,261	933	0	0	0	3,192	-2	
3	1510.38	19,331	-2,886	763	0	3,696	0	0	47	
4	1512.05	19,982	651	6,583	0	1,316	0	4,617	1	
5	1513.87	20,704	722	6,066	0	758	0	4,586	0	
6	1516.68	21,848	1,144	7,470	0	2,665	0	3,659	-2	
7	1518.84	22,749	901	7,567	0	2,707	0	3,960	1	
8	1517.50	22,188	-561	6,265	0	2,026	0	4,800	0	
9	1523.83	24,899	2,711	3,499	0	752	0	0	-36	
10	1527.17	26,387	1,488	3,899	0	291	0	2,118	-2	
11	1513.72	20,644	-5,743	4,470	0	5,463	0	4,751	1	
12	1515.15	21,221	577	5,849	0	2,150	0	3,121	-1	
13	1517.36	22,129	908	5,665	0	1,613	0	3,144	0	
14	1515.94	21,543	-586	5,475	0	2,765	0	3,297	1	
15	1515.59	21,400	-143	5,206	0	3,174	0	2,174	-1	
16	1513.76	20,660	-740	3,973	0	1,040	0	3,674	1	
17	1512.52	20,167	-493	3,390	0	3,441	0	442	0	
18	1514.44	20,934	767	5,086	0	2,229	0	1,700	-390	
19	1515.82	21,494	560	5,213	0	706	0	3,947	0	
20	1517.01	21,984	490	6,498	0	2,719	0	3,288	-1	
21	1517.97	22,384	400	5,866	0	1,462	0	4,006	2	
22	1523.57	24,785	2,401	6,840	0	1,324	0	3,114	-1	
23	1514.45	20,938	-3,847	1,833	0	1,203	0	4,477	0	
24	1510.56	19,400	-1,538	2,586	0	3,687	0	436	-1	
25	1518.89	22,770	3,370	5,175	0	1,759	0	0	-46	
26	1520.55	23,475	705	5,213	0	955	0	3,552	-1	
27	1523.07	24,566	1,091	6,176	0	1,476	0	3,610	1	
28	1524.54	25,212	646	5,524	0	601	0	4,278	1	
29	1528.28	26,891	1,679	5,761	0	387	0	3,695	0	
30	1527.05	26,332	-559	1,788	0	2,243	0	0	-104	
31	1522.82	24,457	-1,875	4,498		2,550	0	3,825	2	
Total				-2,411	146,867	0	57,158	0	91,393	
									-727	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
Jul 31	1505.81	303,539							
1	1506.44	304,897	1,358	0	3,930	0	2,400	0	
2	1506.84	305,761	864	0	3,192	0	2,296	0	
3	1505.79	303,496	-2,265	0	0	0	2,232	0	
4	1506.82	305,718	2,222	0	4,617	0	2,365	0	
5	1507.72	307,667	1,949	0	4,586	0	2,393	0	
6	1508.31	308,948	1,281	0	3,659	0	2,379	0	
7	1509.09	310,647	1,699	0	3,960	0	2,334	0	
8	1510.17	313,009	2,362	0	4,800	0	2,375	0	
9	1509.02	310,494	-2,515	0	0	0	2,499	0	
10	1508.87	310,167	-327	0	2,118	0	2,515	0	
11	1509.85	312,308	2,141	0	4,751	0	2,448	0	
12	1510.11	312,877	569	0	3,121	0	2,500	89	
13	1510.29	313,272	395	0	3,144	0	2,522	89	
14	1510.59	313,930	658	0	3,297	0	2,580	4	
15	1510.35	313,403	-527	0	2,174	0	2,576	0	
16	1510.80	314,391	988	0	3,674	0	2,629	0	
17	1509.87	312,352	-2,039	0	442	0	2,556	0	
18	1509.66	311,892	-460	0	1,700	0	2,464	0	
19	1510.23	313,140	1,248	0	3,947	0	2,524	0	
20	1510.56	313,864	724	0	3,288	0	2,509	0	
21	1511.30	315,491	1,627	0	4,006	0	2,259	0	
22	1511.63	316,218	727	0	3,114	0	2,269	0	
23	1512.53	318,206	1,988	0	4,477	0	2,500	0	
24	1511.72	316,416	-1,790	0	436	0	2,239	0	
25	1510.70	314,171	-2,245	0	0	0	2,193	0	
26	1511.27	315,425	1,254	0	3,552	0	2,210	0	
27	1511.81	316,615	1,190	0	3,610	0	2,291	0	
28	1512.75	318,693	2,078	0	4,278	0	2,105	0	
29	1513.32	319,957	1,264	0	3,695	0	2,273	0	
30	1512.25	317,587	-2,370	0	0	0	2,351	0	
31	1512.94	319,114	1,527	0	3,825	0	2,295	0	
Total		15,575	0	91,393	0	74,081	182	-1,555	

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Local	Transfer	Flexible Payback		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		100,004							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	2,610	2					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07		100,101							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	2	2,610	2					
			14.10	United Water Agency	2,610							
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(57,158 AF pumpback) 2/	146,867							
29J	W4	Elderberry Forebay				46	46					
		Forebay Dam	28.12									
		Castaic Lake		Calif. State Park Castaic Lake Recreation	46							
30 1/	W5	Castaic Dam	31.47			15,654	15,654					
		Castaic Lake Outlet		MWD - 78"	15,654							
				MWD - 132"	52,568							
			31.55	Castaic Lake WA - T1	2,614							
				Castaic Lake WA	3,045							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	182							
				Reach 30 Subtotal:	74,081	74,035	46	0	0	0		
	W6	Castaic Lagoon		Recreation to Lagoon	182		182					
		Castaic Lagoon Outlet	31.87									

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/
							Project			Del. To Mojave W.A.	Natural To Mojave River	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel			
Jul 31	3352.36	72,417										
1	3352.44	72,494	77	2,942	0	0	8	0	2,978	0	1	122
2	3352.29	72,350	-144	2,984	0	0	6	0	3,023	0	0	-99
3	3352.44	72,494	144	2,847	0	0	7	0	2,938	0	0	242
4	3352.21	72,274	-220	2,999	0	0	7	0	3,141	0	1	-70
5	3351.94	72,016	-258	2,814	0	0	8	0	3,090	0	0	26
6	3352.01	72,083	67	2,610	0	0	7	0	2,944	0	0	408
7	3351.98	72,054	-29	2,916	0	0	9	0	3,039	0	1	104
8	3351.82	71,901	-153	2,960	0	0	9	0	3,146	0	0	42
9	3351.47	71,568	-333	2,537	0	0	9	1	3,085	0	0	225
10	3351.55	71,644	76	3,102	0	0	10	0	3,021	0	1	6
11	3351.63	71,720	76	2,937	0	0	10	0	3,075	0	0	224
12	3351.28	71,387	-333	2,812	0	0	11	0	3,188	0	1	55
13	3351.12	71,235	-152	2,631	0	0	10	0	3,219	0	0	446
14	3350.31	70,469	-766	2,632	0	0	10	0	3,102	0	1	-285
15	3350.46	70,610	141	3,082	0	0	10	0	3,122	0	0	191
16	3350.35	70,506	-104	3,013	0	0	10	1	3,089	0	0	-17
17	3350.46	70,610	104	3,185	0	0	9	0	3,106	0	0	34
18	3350.35	70,506	-104	3,039	0	0	10	0	3,160	0	1	28
19	3350.25	70,412	-94	3,126	0	0	10	0	3,250	0	0	40
20	3350.20	70,365	-47	2,806	0	0	9	0	3,147	0	1	304
21	3350.25	70,412	47	3,070	0	0	10	0	3,063	0	0	50
22	3350.30	70,459	47	3,275	0	0	9	0	3,171	0	0	-48
23	3350.70	70,837	378	3,170	0	0	9	0	3,036	0	0	253
24	3350.54	70,686	-151	3,417	0	0	9	0	2,980	0	1	-578
25	3349.96	70,139	-547	2,521	0	0	9	0	3,394	0	0	335
26	3350.46	70,610	471	3,224	0	0	9	0	3,096	0	1	353
27	3350.20	70,365	-245	2,910	0	0	10	0	3,106	0	0	-39
28	3350.00	70,176	-189	2,544	0	0	10	0	3,088	0	0	365
29	3349.70	69,894	-282	2,815	0	0	9	0	3,099	0	1	12
30	3349.23	69,452	-442	2,798	0	0	8	0	3,134	0	0	-98
31	3349.00	69,238	-214	3,153	0	0	11	0	3,197	0	0	-159
Total				-3,179	90,871	0	282	2	96,227	0	11	2,472
1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.												

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

August 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Jul 31	1586.42	123,218				
1	1586.02	122,333	-885		10	
2	1586.86	124,218	1,885		9	
3	1585.92	122,107	-2,111		10	
4	1585.97	122,220	113		10	
5	1585.91	122,084	-136		9	
6	1585.87	121,994	-90		10	
7	1585.80	121,836	-158		109	
8	1585.85	121,948	112		9	
9	1585.78	121,790	-158		9	
10	1585.79	121,813	23		10	
11	1585.78	121,790	-23		10	
12	1585.66	121,520	-270		9	
13	1585.63	121,452	-68		253	
14	1585.46	121,069	-383		308	
15	1585.37	120,867	-202		307	
16	1585.22	120,529	-338		307	
17	1585.03	120,103	-426		424	
18	1584.81	119,609	-494		507	
19	1584.53	118,982	-627		508	
20	1584.31	118,491	-491		496	
21	1584.10	118,022	-469		505	
22	1583.90	117,576	-446		374	
23	1583.74	117,220	-356		282	
24	1583.65	117,020	-200		208	
25	1583.52	116,731	-289		142	
26	1583.45	116,576	-155		112	
27	1583.37	116,398	-178		118	
28	1583.34	116,332	-66		118	
29	1583.24	116,110	-222		119	
30	1583.25	116,124	14		117	
31	1583.17	115,955	-169		118	
Total			-7,263	1,242	5,537	-2,968

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries of 5,490 AF to MWD from Reach 28J and 47 AF recreation water to California State Park.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A Amount	Rec.	Transfer	Purchase Pool A	Transfer Local Out			
	No.	Structure	Mile										
17E	40	Edmonston Pumping Plant	293.45		205,225								
	41		298.65		Kern County Water Agency Tej.-Cas		Stub						
17F		Check No. 41	303.41										
18A	42	Check No. 42	304.99										
19	43	Alamo Powerplant	305.73	(Does not include 6,853 AF flow down Cottonwood Chute)	98,088								
			308.05	Antelope Valley-East Kern WA	0								
		Check No. 43	309.70										
	44		311.84	LADWP Connection	0								
			313.50	AVEK 245th Street West	0								
	Check No. 44		314.81										
	45		314.93	AVEK 235th Street West	0								
			315.57	AVEK 225th Street West	0								
		Check No. 45	319.74										
	46		323.19	Antelope Valley-East Kern WA Fairmont	1,828		1,828						
				Mojave Water Agency Fairmont	202								
		Check No. 46	323.84										
				Reach 19 Total:	2,030		2,030	0	0	0			
20A	47	Check No. 47	326.77				124						
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	124								
			329.65	Antelope Valley-East Kern WA 120th Street West	Re- moved								
		Check No. 48	330.82										
	49	Check No. 49	335.93										
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0		5,005	111					
20B				Antelope Valley-East Kern WA	5,005								
			339.68	Antelope Valley-East Kern WA	111								
Check No. 50		341.51											
51	Check No. 51	342.07											
52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use	127								
		343.50	Antelope Valley-East Kern WA Temporary 10 & 12	127									
	Check No. 52	343.74											
53		346.98	PWD Palmdale	746	746								
		348.14	Antelope Valley-East Kern WA Acton Treatment Plant	216									
	Check No. 53	348.17											
21	54	Check No. 54	350.25										
	55	Check No. 55	352.70										
	56	Check No. 56	354.76										
			354.97	Littlerock Creek I.D.	0								
	57	Check No. 57	356.93										
22A	58		357.60	Antelope Valley-East Kern WA	82		82						
			357.72	Antelope Valley-East Kern WA 96th Street East	68								
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	663								

Table 31b. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

August 2003

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries									
	Beginning and Ending					Table A Amount	Recreation	Ex-change	Transfer	Flexible Payback					
	No.	Structure	Mile												
22B	58	Pearblossom Pumping Plant	360.61		94,758	642	139	127	202						
	59	Check No. 59	366.09												
	60		366.50		Antelope Valley-East Kern WA 0										
		Check No. 60	373.94												
	61	Check No. 61	379.00												
	62	Check No. 62	384.26												
	63	Check No. 63	389.20		Mojave Water Agency Mojave River		844								
			394.60		Mojave Water Agency Temporary		139								
	64	Check No. 64	395.10												
	65	Check No. 65	400.32												
23	66		401.10		Mojave Water Agency Morongo 24" and 42"		127	282	2						
					Mojave Water Agency Hesperia		0								
24	67	Check No. 66	403.41			282	2								
		Mojave Siphon	405.48		Las Flores Ranch		0								
25		Mojave Siphon Powerplant	405.65				90,871								
		Silverwood Lake	407.65		Crestline Lake Arrowhead Water Agency		282								
26A	68	Devil Canyon Afterbay Control Structures	412.88		Calif. State Park Silverwood Agency (Rec.)		2	14							
							96,227								
28G					San Bernardino Tunnel		96,227								
					Devil Canyon Powerplant		412.73								
					San Gorgonio Pass Water Agency		14								
					MWD-SC Rialto		42,767	42,767							
					Desert Water Agency (MWD Wheeling Exchange)		5,869								
					San Gabriel Valley Water District		2,690								
					Coachella Valley WD (MWD Wheeling Exchange)		3,557								
					San Bernardino Valley MWD 24" and 72"		0								
					San Bernardino Valley MWD 48"		2,384								
					MWD (SBVMWD Exchange)		4,860								
28H	69	Santa Ana Valley Pipeline	425.46			10,991	22,412	294	47						
			433.06		MWD-SC Box Springs		10,991								
			440.05		MWD-SC Perris Bypass Pipeline		22,412								
			442.00		MWD-SC 18"		294								
28J		Lake Perris	443.44		MWD-SC 54"		3,568	3,568	1,628						
					MWD-SC 78"		1,628								
					Calif. State Park Lake Perris Recreation		47								
					MWD Total:	166,936	166,936								

Table 32. Water Quality At Selected SWP Locations

August 2003

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	40	75	58	71	67	68	68	65	72
Antimony	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	<0.1	0.2	0.1	0.1	0.1	<0.1	0.1
Bromide	mg/l	<0.01	0.02	0.06	0.11	0.11	0.12	0.10	0.10	0.13
Calcium	mg/l	8	12	11	17	14	15	14	13	16
Carbon - Dissolved Organic	mg/l as C	NR	2	2	2	2	2	3	2	3
Carbon - Total Organic	mg/l as C	NR	5	4	5	4	4	5	3	4
Chloride	mg/l	<1	9	23	37	38	41	36	35	48
Chromium	mg/l	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Copper	mg/l	0.001	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002
Fluoride	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
Hardness	mg/l as CaCO ₃	36	63	56	80	68	75	65	65	81
Iron	mg/l	0.006	<0.005	0.011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	9	7	9	9	9	9	8	10
Manganese	mg/l	0.005	0.007	0.012	<0.005	0.005	<0.005	<0.005	<0.005	0.039
Nitrate + Nitrite	mg/l as N	<0.01	0.19	0.13	NR	NR	0.38	NR	0.28	0.20
Phosphorus-Ortho	mg/l as P	<0.01	0.09	0.06	NR	NR	0.07	NR	0.08	0.05
Phosphorus-Total	mg/l	<0.01	0.15	0.08	NR	NR	0.10	NR	0.11	0.05
Selenium	mg/l	NR	<0.001	<0.001	NR	NR	NR	<0.001	NR	NR
Sodium	mg/l	3	13	19	30	28	31	27	26	34
Specific Conductance	µS/cm	81	194	212	332	299	317	294	280	358
Sulfate	mg/l	2	10	10	31	20	22	19	17	26
Total Dissolved Solids	mg/l	48	118	128	199.5	180	191	178	169.5	214
Turbidity	NTU	3	49	9	16	4	5	5	12	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

August 2003

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm									Cl in mg/l		
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	(Antioch) Daily Mean		Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md		
	Hi	Half						md	md	md	14dm	md	14dm	md	md	
38	1	3.19	1.39	12,754	12,754	15,042	0.69	2.18	0.17	0.20	0.34	0.42	0.24	0.50	0.26	49
	2	3.02	1.40	12,069	12,411	14,655	0.64	2.09	0.17	0.20	0.33	0.41	0.21	0.50	0.26	50
	3	2.94	1.27	12,522	12,448	14,499	0.59	1.84	0.16	0.19	0.31	0.41	0.21	0.55	0.27	52
	4	3.20	1.30	11,939	12,321	14,555	0.59	1.63	0.16	0.19	0.30	0.40	0.22	0.56	0.27	52
	5	3.39	1.25	12,598	12,376	14,847	0.55	1.40	0.15	0.19	0.29	0.39	0.22	0.60	0.27	52
	6	3.73	1.45	12,284	12,361	14,969	0.52	1.82	0.15	0.19	0.29	0.38	0.23	0.56	0.26	52
	7	3.88	1.60	11,966	12,304	14,747	0.55	2.04	0.17	0.19	0.29	0.37	0.23	0.50	0.25	50
	8	3.88	1.64	11,222	12,169	14,327	0.57	2.08	0.18	0.19	0.30	0.36	0.25	0.45	0.26	50
	9	3.96	1.65	10,307	11,962	13,559	0.59	2.39	0.20	0.19	0.29	0.34	0.23	0.39	0.26	49
	10	3.86	1.54	8,277	11,594	12,222	0.59	2.31	0.20	0.19	0.28	0.33	0.23	0.41	0.26	48
	11	3.71	1.45	9,918	11,441	13,344	0.60	2.38	0.20	0.18	0.27	0.32	0.21	0.44	0.27	43
	12	3.61	1.44	6,057	10,993	10,576	0.63	2.55	0.21	0.18	0.27	0.31	0.21	0.45	0.26	40
	13	3.43	1.31	4,870	10,522	9,690	0.66	2.57	0.21	0.18	0.27	0.30	0.21	0.45	0.27	36
	14	3.19	1.30	4,193	10,070	9,292	0.73	3.06	0.21	0.18	0.27	0.29	0.21	0.42	0.26	36
	15	2.79	1.22	3,950	9,662	9,131	0.70	3.04	0.20	0.18	0.28	0.29	0.30	0.44	0.26	37
	16	2.57	1.10	3,832	9,297	9,040	0.76	0.00	0.20	0.19	0.27	0.28	0.30	0.50	0.26	38
	17	2.80	1.22	3,704	8,968	8,917	0.82	0.00	0.20	0.19	0.29	0.28	0.30	0.48	0.26	39
	18	2.97	1.33	3,468	8,663	8,782	0.89	0.00	0.20	0.19	0.31	0.28	0.30	0.50	0.25	35
	19	3.26	1.44	3,566	8,395	8,792	0.95	4.05	0.22	0.20	0.34	0.29	0.30	0.44	0.26	36
	20	3.30	1.51	2,880	8,119	8,441	1.01	4.21	0.22	0.20	0.36	0.29	0.30	0.41	0.25	35
	21	3.34	1.67	2,955	7,873	8,592	1.25	4.81	0.23	0.21	0.39	0.30	0.30	0.36	0.25	36
	22	3.36	1.59	3,243	7,662	8,809	1.31	4.67	0.24	0.21	0.39	0.31	0.30	0.44	0.28	35
	23	3.36	1.57	6,633	7,618	10,412	1.22	4.84	0.26	0.21	0.39	0.31	0.30	0.68	0.28	38
	24	3.48	1.49	7,265	7,603	10,769	1.24	4.78	0.30	0.22	0.41	0.32	0.30	0.62	0.29	40
	25	3.46	1.44	7,450	7,597	10,746	1.22	4.94	0.33	0.23	0.41	0.33	0.30	0.59	0.30	44
	26	3.66	1.56	7,773	7,604	10,675	1.31	0.00	0.35	0.24	0.44	0.34	0.30	0.54	0.29	44
	27	3.57	1.46	7,007	7,582	10,497	1.39	5.78	0.33	0.25	0.44	0.36	0.30	0.49	0.28	44
	28	3.38	1.38	4,538	7,473	9,579	1.21	5.91	0.34	0.26	0.45	0.37	0.30	0.47	0.29	45
	29	3.07	1.21	4,369	7,366	9,438	1.35	5.35	0.30	0.27	0.45	0.38	0.30	0.47	0.28	45
	30	2.89	1.33	4,288	7,263	9,383	1.23	5.58	0.32	0.27	0.48	0.40	0.30	0.44	0.29	45
	31	3.08	1.35	4,003	7,158	8,916	1.46	5.58	0.34	0.28	0.51	0.41	0.30	0.46	0.29	48

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

August 2003

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 17, 2003	None Detected	
California Aqueduct At Banks Pumping Plant	June 17, 2003	None Detected	
O'Neill Forebay Outlet Check 13	June 17, 2003	None Detected	
Delta Mendota Canal At McCabe Road	June 17, 2003	Methyl tert-butyl ether (MTBE)	1
California Aqueduct Near Kettleman City (Check 21)	June 17, 2003	None Detected	
California Aqueduct At Tehachapi Afterbay (Check 41)	June 17, 2003	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

August 2003

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	13,937,472	0	41,853	33,789	3,680,256	3,680,256	415,110	256
2	12,622,752	0	40,887	29,512	3,640,512	3,640,512	433,695	246
3	12,545,856	0	42,672	32,935	3,680,256	3,680,256	410,485	243
4	11,965,536	0	43,771	32,536	3,640,320	3,640,320	437,905	234
5	11,146,176	0	41,118	32,396	3,701,952	3,701,952	440,105	229
6	13,694,688	0	34,692	29,547	3,964,032	3,964,032	417,775	218
7	9,929,088	0	38,892	31,507	3,932,928	3,932,928	389,900	229
8	9,212,544	0	37,205	32,921	3,926,208	3,926,208	297,525	243
9	8,327,232	0	39,242	29,624	3,923,712	3,923,712	303,320	244
10	6,168,384	4,032	32,158	26,166	3,923,904	3,923,904	303,545	238
11	9,689,760	0	34,566	31,241	3,916,416	3,916,416	313,755	241
12	8,725,824	0	38,297	32,004	3,921,792	3,921,792	308,830	240
13	10,330,560	0	41,734	32,382	3,948,864	3,948,864	315,085	243
14	9,895,968	0	45,171	33,082	3,932,352	3,932,352	285,820	237
15	9,595,296	0	36,631	35,196	3,919,104	3,919,104	326,230	242
16	5,425,056	3,744	32,032	32,578	3,943,680	3,943,680	331,280	244
17	7,517,376	3,744	30,975	32,235	3,927,360	3,927,360	339,315	256
18	9,578,304	1,440	28,749	31,255	3,917,952	3,917,952	333,005	238
19	8,764,704	0	27,118	29,141	3,949,248	3,949,248	414,145	200
20	10,964,160	0	28,329	31,430	3,939,456	3,939,456	403,930	207
21	11,998,080	0	26,642	28,931	3,920,832	3,920,832	379,950	202
22	13,308,192	0	28,770	29,918	4,217,088	4,217,088	352,520	186
23	10,500,768	0	30,338	31,801	3,946,560	3,946,560	359,575	191
24	9,368,064	0	27,419	31,332	3,947,136	3,947,136	381,970	211
25	13,216,320	0	27,587	29,225	3,917,376	3,917,376	374,665	226
26	12,039,840	0	29,513	32,165	3,912,000	3,912,000	382,100	230
27	10,353,600	0	29,932	31,486	3,914,112	3,914,112	389,795	201
28	11,024,928	0	28,644	30,877	3,912,000	3,912,000	425,560	187
29	11,345,760	0	27,174	32,172	3,914,688	3,914,688	462,550	195
30	6,098,400	0	26,726	29,939	3,935,424	3,935,424	497,880	197
31	7,807,680	0	26,726	30,415	3,913,344	3,913,344	498,450	197
Total	317,098,368	12,960	1,045,563	969,738	120,780,864	120,780,864	11,725,775	6,951

Table 36. San Luis Field Division Energy Data

(in kWh)

August 2003

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	2,824,704	2,077,704	2,001,600	741,600	7,200	7,200
2	3,016,080	2,269,080	2,009,952	749,952	6,912	6,912
3	2,943,072	2,199,072	899,424	899,424	8,352	8,352
4	2,459,952	1,712,952	1,929,312	669,312	6,912	6,912
5	2,515,392	1,768,392	1,252,800	328,800	10,080	10,080
6	2,655,936	1,908,936	381,600	381,600	13,536	13,536
7	2,482,560	1,735,560	939,744	211,744	8,640	8,640
8	2,442,096	1,695,096	349,920	349,920	8,928	8,928
9	2,497,104	1,750,104	1,414,656	742,656	7,488	7,488
10	2,434,320	1,762,320	0	0	19,008	19,008
11	2,208,240	1,542,240	1,211,904	41,904	6,912	6,912
12	2,206,080	1,540,080	0	0	19,296	19,296
13	2,368,944	1,702,944	0	0	1,102,464	1,102,464
14	2,796,768	2,130,768	814,464	34,464	332,064	332,064
15	2,728,800	2,173,800	2,019,744	1,239,744	6,912	6,912
16	2,446,992	1,891,992	1,584,000	804,000	6,624	6,624
17	2,558,880	2,006,880	288,864	288,864	281,664	281,664
18	2,444,688	1,889,688	1,736,352	956,352	6,912	6,912
19	2,187,792	1,440,792	1,292,544	122,544	837,216	837,216
20	2,515,824	1,768,824	773,280	-6,720	1,077,120	1,077,120
21	2,589,696	1,842,696	1,174,176	4,176	330,336	330,336
22	2,689,200	1,942,200	618,048	-5,952	9,504	9,504
23	2,647,440	1,900,440	1,157,184	-12,816	6,912	6,912
24	2,331,792	1,587,792	553,248	553,248	105,408	-4,592
25	1,638,576	891,576	1,013,184	233,184	1,723,680	953,680
26	1,961,280	1,214,280	375,552	552	1,905,120	1,905,120
27	2,062,368	1,180,368	0	0	1,708,416	1,708,416
28	2,122,992	1,240,992	902,592	2,592	1,040,256	1,040,256
29	2,022,336	1,140,336	1,093,248	343,248	1,341,792	1,341,792
30	2,030,544	1,148,544	849,600	24,600	975,744	975,744
31	1,839,312	951,312	665,280	15,280	1,064,160	1,064,160
Total	74,669,760	52,007,760	29,302,272	9,714,272	13,985,568	13,105,568

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

August 2003

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	38,408	98,984	72,738	70,290	74,160	1,607,256	1,662,048	3,671,712	13,530,960
2	49,084	122,880	72,576	68,238	70,866	1,895,040	1,865,160	4,129,344	15,036,480
3	47,836	120,704	87,444	81,792	88,254	2,057,688	2,175,984	4,927,104	18,203,760
4	35,438	89,440	55,206	52,326	55,494	1,606,824	1,660,176	3,697,632	13,587,840
5	41,344	106,176	97,992	94,248	94,518	1,631,448	1,663,056	3,700,800	13,527,360
6	39,166	100,608	86,058	83,574	85,608	1,648,008	1,694,880	3,754,080	13,712,400
7	39,264	103,528	90,360	86,346	87,606	1,717,056	1,759,752	3,864,096	13,721,760
8	39,900	102,536	80,532	77,364	79,614	1,792,296	1,855,728	4,127,904	15,039,360
9	44,810	116,576	71,190	67,788	71,208	1,920,672	2,030,688	4,490,496	16,595,280
10	42,684	112,264	104,562	99,126	103,392	1,750,176	1,835,064	4,116,096	14,896,080
11	32,068	83,448	64,548	61,524	65,034	1,606,176	1,655,784	3,667,104	13,425,840
12	23,720	62,272	79,758	75,042	77,526	1,619,064	1,719,360	3,796,128	14,056,560
13	26,724	68,584	84,564	81,288	83,394	1,730,160	1,837,440	4,078,656	14,717,520
14	30,702	78,936	84,654	81,468	83,574	1,836,648	1,797,408	3,908,160	14,579,280
15	29,740	78,896	82,440	78,372	81,324	1,823,400	1,852,344	4,093,344	14,770,800
16	38,938	101,256	77,562	74,880	76,878	1,864,728	1,963,080	4,334,976	16,147,440
17	38,036	99,664	77,004	72,306	99,432	1,976,976	2,083,104	4,677,408	17,254,080
18	28,114	72,648	90,342	85,734	67,032	1,849,680	1,959,192	4,332,384	16,116,480
19	27,582	71,656	71,190	67,950	70,326	1,693,368	1,786,392	3,945,600	14,607,360
20	27,684	70,928	80,514	77,976	78,948	1,889,496	1,935,216	4,254,912	15,437,520
21	26,518	68,080	80,658	78,084	79,344	1,686,816	1,825,560	3,987,360	14,856,480
22	26,650	69,640	83,898	79,632	82,404	1,876,104	1,946,448	4,310,784	15,510,960
23	43,752	113,032	80,100	76,842	79,488	2,035,728	2,141,496	4,712,544	17,535,600
24	42,372	109,440	97,920	91,800	97,362	1,872,648	2,008,008	4,492,800	16,529,040
25	31,840	80,880	61,182	58,752	61,668	1,534,680	1,692,504	3,705,408	13,569,120
26	34,978	91,272	77,922	73,224	77,688	1,681,056	1,776,240	3,903,552	14,416,560
27	34,188	89,608	67,644	63,108	66,690	1,728,288	1,789,416	3,902,688	14,146,560
28	32,850	85,000	81,054	78,606	80,586	1,560,096	1,643,112	3,566,592	12,958,560
29	33,348	84,672	82,152	78,030	79,776	1,467,792	1,584,720	3,489,408	12,781,440
30	38,886	104,440	76,968	74,250	76,500	1,612,440	1,713,672	3,750,624	13,687,200
31	30,706	79,312	80,028	74,898	79,884	1,926,072	2,105,424	4,690,080	17,328,240
Total	1,097,330	2,837,360	2,480,760	2,364,858	2,455,578	54,497,880	57,018,456	126,079,776	462,283,920

Table 38. Southern Field Division Energy Data

(in kWh)

August 2003

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	702,856	1,799,712	2,880,000	366,996	2,084,604	3,592,224	235,137
2	915,208	1,800,288	2,880,000	370,636	1,945,776	3,673,056	238,917
3	1,037,176	1,805,472	2,880,000	419,580	2,156,904	3,590,688	232,218
4	725,816	1,719,648	2,880,000	373,044	1,969,632	3,799,968	235,893
5	715,400	1,764,288	2,880,000	375,424	1,946,424	3,721,152	220,815
6	811,328	1,803,384	2,880,000	332,360	1,898,124	3,539,808	205,128
7	693,224	1,797,984	2,880,000	368,228	2,116,260	3,666,048	234,612
8	836,808	1,789,488	2,880,000	384,160	1,999,008	3,805,344	236,838
9	1,180,424	1,749,168	2,880,000	341,712	1,806,684	3,739,584	200,613
10	757,120	1,802,304	2,880,000	422,324	2,269,644	3,678,720	255,864
11	785,568	1,732,320	2,880,000	331,968	1,986,468	3,710,016	237,552
12	768,936	1,709,208	2,880,000	348,376	1,818,420	3,845,088	222,957
13	794,752	1,793,664	2,880,000	386,596	1,924,092	3,848,832	209,286
14	785,456	1,790,136	2,880,000	372,568	2,085,276	3,727,008	209,958
15	826,000	1,786,752	2,880,000	359,716	2,059,608	3,762,720	252,189
16	1,006,824	1,724,544	2,880,000	358,876	1,976,676	3,726,528	251,118
17	989,184	1,798,344	2,880,000	415,016	2,314,428	3,755,232	257,166
18	919,072	1,757,736	2,880,000	415,352	2,231,376	3,797,184	240,261
19	790,832	1,759,392	2,880,000	374,836	2,142,264	3,874,944	253,554
20	875,000	1,783,800	2,880,000	357,616	1,933,824	3,765,024	227,283
21	811,328	1,799,784	2,880,000	376,712	2,084,244	3,690,912	251,118
22	910,504	1,798,920	2,880,000	394,856	2,088,096	3,773,856	266,721
23	1,083,600	1,801,152	2,880,000	408,044	2,455,200	3,679,008	262,647
24	935,032	1,799,856	2,880,000	408,912	2,052,588	3,616,224	279,594
25	798,000	1,810,872	2,640,000	322,280	1,756,248	4,069,344	195,615
26	763,504	1,664,784	2,640,000	392,000	2,280,900	3,696,960	264,306
27	777,280	1,805,184	2,640,000	343,896	1,937,004	3,708,768	233,667
28	741,944	1,801,800	2,640,000	314,552	1,906,344	3,709,536	198,534
29	721,056	1,793,952	2,640,000	352,520	1,766,880	3,715,872	227,808
30	729,176	1,766,376	2,640,000	368,312	1,958,400	3,790,368	224,910
31	1,010,520	1,788,408	2,640,000	413,140	2,260,560	3,862,464	258,615
Total	26,198,928	55,098,720	87,600,000	11,570,608	63,211,956	115,932,480	7,320,894